SUBJECT INDEX

Vol. 141C, Nos. 1-4

AChe, 412
Acute hyperthyroidism, 241
Adrenoceptor, 241
Adriatic Sea, 366
Aerobic capacity, 356
Aeromonas sp., 76
Affinity chromatography, 145
Age, 15
AhR, 40
AHR nuclear translocator, 281
AHR1, 177
AHR2, 177
Air-breathing behavior, 275
Alexipharmic courses, 248
Algae, 110
Alkylphenol, 267
Ammonia, 145
Amphibians, 384
Androgen receptor, 101
ANF, 40
Anti-androgen, 101
Anticonvulsants, 50
Anti-estrogen, 101
Anti-inflammatory drugs, 332
Antimicrobial peptide, 393
Aorta, 241
Apoptosis, 157, 194, 225
Aroclor 1254, 8
Aromatase inhibitor, 101
Artificial bilayers, 207
Aryl hydrocarbon recentor 40, 281

Aryl hydrocarbon receptor, 40, 281 Atlantic salmon, 217, 314 Bacterial agglutination, 76 Baculovirus, 338 Baikal seal, 281 Bax and Bcl-2, 225 Benzo[a]pyrene hydroxylase, 20 Benzo(k)fluoranthene, 248 BFC, 338 Bicarbonate, 1 Binding inhibition, 50 Biomarker, 248 Biomarkers, 188, 217, 356 Biomonitoring, 356 BKF toxicity, 248 Blood pressure, 85 BNF, 40 Bothrops alcatraz, 117 Bursts of potential, 58

Cadmium, 15, 151, 306 cAMP, 58, 257 CarE, 412 Catalase, 194, 292, 366 Catecholamines, 85 cDNA cloning, 168 Cell line, 157 Cell membrane, 207 Channel formation, 207 Chaperones, 398 Chattonella marina, 297 Cheiracanthium, 32 Chicken, 69, 225 Chlamys farreri, 248 Chloride replacement, 1 CHSE-214, 157 Clarias batrachus, 76 Colon, 1 Common carp, 325 Copper, 151, 306 Copper toxicology, 375 CpG methylation, 406 Crassostrea gigas, 151 Creosote, 406 Crotalus scutulatus scutulatus, 124 Cyclooxygenase, 332 CYP1A, 20, 177, 217, 281 CYP1B, 281 CYP3A, 338 Cytochrome b₅, 20 Cytochrome C oxidase, 356 Cytochrome P450, 338 Cytochrome P450 monooxygenase system, 20 Cytochrome P4501A, 406 Cytotoxin, 297 d-amphetamine, 58 Daphnia magna, 110 Deiodination, 8 Demospongiae, 207 Depolarization, 207

Disintegrins, 124 Dopamine transport, 332 E. coli STa, 1 Ecdysteroidogenesis, 168 EDHF, 241 Elizabeth River, 406 Embryo, 406 Endocrine disrupting compounds (EDC), Endocrine disruptor, 8 Endosulfan, 8 Energy, 110 Energy metabolism, 15 Environmental assessment, 217 Environmental monitoring, 384 Epigenetics, 406 Epilepsy, 58 Escherichia coli, 69 17β -estradiol, 133 17β-estradiol, 257 Estrogen mimics, 267 Estrogen receptor, 267 Estrogen receptor-mRNA, 384 Estrogenic activity, 384 17α -ethynylestradiol, 133 Fallaxin, 393 Fibroblasts, 225

Dimethoate, 412

Fish, 8, 40, 145, 356, 375 Flow cytometry, 194 Frog skin, 393 Fundulus heteroclitus, 406

G6PD, 145 GABA and glutamate receptors, 50 Gene expression, 168, 314 Geodia corticostylifera, 207 Geographic Variation, 124 Gerbil, 1 Gill biopsies, 217 Gills, 248, 375 Gliotoxin, 157 Gluconate, 1 Glutathione, 69, 314, 412 Glutathione peroxidase, 292, 366 Glutathione reductase, 366 Glutathione-S-transferase, 366

Diazepam-binding inhibitor/acyl-CoA-

Detoxification, 151

binding protein, 168

Dibutylphthalate, 133

Digestive cells, 188

Digestive gland, 248

Diapause, 168

Dietary, 110

Subject Index

Gonadotrophins, 349 GR, 412 Gram negative, 76 Gram positive, 76 Grasshoppers, 412

Haemolysin, 207
Heat shock proteins 70, 151
Heat stress, 69
Heavy metals, 398
Helicoverpa armigera, 168
Hemolysin, 297
Hemolysis, 32
Hemorrhagic activity, 124
HIF-1α, 93
Hoplosternum littorale, 275
Hsp70, 69, 194
Hyperoxia, 314
Hypoxia, 93

IL-1, 76 Immunohistochemistry, 151 Imposex, 101 In situ hybridization, 168 In vitro, 325 Inhibition, 145 Island species, 117

Kidney, 15 Kinetics, 338

Lactate dehydrogenase, 356
Laying hen, 349
Leptodactylidae, 393
LH secretion, 325
Lipid peroxidation, 292
Liver, 15
Liver peroxisome proliferation, 133
Loach, 292
Long-term effects, 349
Loxosceles, 32
Lysosomal structural changes, 188

Macrophages, 157
Mantle/gonad cells, 257
Marine invertebrates, 20
Marine sponge, 207
MCF-7, 267
Mechanism, 248
Medaka, 338
Melatonin, 15
Mercury, 306
Metabolic rate, 15
Metabolism, 338
Metallothionein, 194, 306
Metallothioneins, 151
Metals, 188, 412

Methoxychlor, 133 α-methyl glucose, 76 5-methylcytosine, 406 Microcystis, 292 Mitogen, 76 Mixtures, 188 Mohave venom, 124 Mojave toxins, 124 Mojavestatin', 124 Molluscs, 151 Morphine, 325 mRNA, 314 Municipal effluents, 332 Muscarinic receptor, 241 Muscle cells, 225 Mussels, 188, 257, 366 Mytilus galloprovincialis, 366

NADPH-independence, 20 Na⁺/K⁺-ATPase, 375 Naltrexone, 325 β-naphthoflavone, 40 Necrosis, 32, 157, 225 Necrotic arachnidism, 32 Neuron, 58 α-neurotoxins, 85 β-neurotoxins, 85 Neurotoxins, 50 NHE, 257 Nitric oxide, 241 NOS, 93 Nucella lapillus, 101

Oncorhynchus mykiss, 40, 145
Oreochromis niloticus, 375
Organic chemicals, 188
Oribatida, 398
Osmoregulation, 375
Ovary, 349
Oviduct, 349
Oxidative index, 314
Oxidative stress, 145, 225, 292, 314, 356
Oxygen uptake, 275

P450 aromatase, 101
PAHs, 406
Pb, 398
PCBs, 217
Pentadactylin, 393
Pheophorbide a, 297
Phosphatidylcholine, 32
Phospholipase, 58
Phospholipase A₂, 32
Photodynamic therapy, 297
Photoperiod, 15
Photosensitizer, 297
Phytoplankton, 297

Pituitary cells, 325
PKC, 257
Plasma, 8
Pollution effects, 356
Polybia ignoblis, 50
Porifera, 207
Potential modulation, 58
Primary cultured hepatocytes, 384
Procaine, 58
Prothoracic gland, 168

Quantitative analysis, 177 Quantitative PCR, 217

Radioreceptorassay (RARA), 384
Rainbow trout, 267
Raphidophycean flagellate, 297
Rat, 241
Real-time qRT-PCR, 314
Red seabream, 177
Red tide, 297
Reductases, 20
Relaxation, 241
Reproduction, 151, 349
RTG-2, 157
RTS11, 157

Salmo salar, 217 Salmonid, 40 Scorpion venom, 85 Scutustatin, 124 Second messengers, 58 Seizures, 50 Selenium, 69 Semiquantitative RT-PCR, 384 Serotonin transport, 332 Serum lectin, 76 Serum neutralization, 117 Short-circuit current, 1 Signaling, 257 Silver, 306 SOD, 412 Spermatogenesis, 133 Spiders, 194 Sponges, 306 Steroids, 349 Stress proteins, 398 Stress response, 375 Sulfide, 275 Superoxide dismutase, 194, 292, 366 Synaptic transmission, 58

TCDD, 177, 349 TCDD-sensitivity, 177 Teleostei, 375 TEQs, 281 4-tert-octylphenol, 133 Testosterone, 101, 338
Testosterone–fatty acid esters, 101
Thyroid hormone, 8
Thyroid hormone metabolism, 8
Tibetan, 93
Tilapia, 8
Tissue-expression profile, 177
Tissues, 8
Tityus serrulatus, 85
Tolerance, 110, 275
Total CYP, 20
Toxicity, 110

Tributyltin, 101

TsTX-I, 85
TsTX-V, 85

Undernourishment, 1
Urea, 145

VEGF, 93
Venom activities, 117
Venom gland homog

VEGF, 93 Venom activities, 117 Venom gland homogenate, 32 Venom lethal dose, 124 Venoms, 50 Viperidae, 117 Vitamin E, 225, 314 Vitellogenin, 133, 267 Voltage-gated Na⁺ channel, 85 Wasp, 50

Xenoestrogens, 267 Xenopus laevis, 384

Water-borne, 110

Zebrafish, 133 Zinc, 110, 257, 306

AUTHOR INDEX

Vol. 141C, Nos. 1-4

Abraham, B., 393
Affonso, E.G., 275
Al-Balool, F.Y., 1
Alberti, G., 398
Al-Ghaferi, N., 393
Aluru, N., 40
Amano, M., 281
Amiard-Triquet, C., 306
Arantes, E.C., 85
Araujo, M.S., 225
Augustyniak, M., 412

Babczyńska, A., 412 Baeverfjord, G., 314 Bendhack, L.M., 85 Berntssen, M.H.G., 314 Berthet, B., 306 Bérubé, E., 332 Bhattacharya, B., 76 Blagojević, D.P., 366 Blaise, C., 332 Blödt, S., 384 Bols, N.C., 157 Bonda, E., 15 Borković, S.S., 366 Boutet, I., 151 Bruggeman, V., 349 Brunaldi, K., 207

Cajaraville, M.P., 133
Canli, M., 110
Carlos De Freitas, J., 207
Carolino, R.O.G., 50
Castro, L.F.C., 101
Chatterjee, B., 76
Chung, I.-K., 292
Chwełatiuk, E., 15
Chyb, J., 325
Çiltaş, A., 145
Coimbra, A.M., 8
Conlon, J.M., 393
Coutinho-Netto, J., 50
Cruz-Silva, I., 225
Cunha, A.O.S., 50

Dailianis, S., 257 Darras, V.M., 8 De Ketelaere, B., 349 Decuypere, E., 349 DeWitte-Orr, S.J., 157 Di Giulio, R.T., 406 Donval, A., 151 Dumez, L., 349 Dutta, S., 76

Edens, F.W., 69 Epler, P., 325 Erdoğan, O., 145

Ferreira dos Santos, W., 50 Fontaínhas-Fernandes, A., 375 Foradori, M.J., 32 Fournier, M., 332 Furtado, M.F.D., 117

Gagné, F., 332 Gagnon, M.M., 356 Galán, J.A., 124 Gao, W., 93 Gao, Y., 93 Giglio, J.R., 85 Godinho, R.O., 225 Gozzo, A.J., 225

Hinton, D.E., 338 Hisar, O., 145 Honda, H., 241 Hongslo, J.K., 267

Iwata, H., 177, 281 Iwata, T., 241 Izagirre, U., 188

Juliano, M.A., 225

Kafel, A., 412

Kaloyianni, M., 257 Kashiwada, S., 338 Kim, E.-Y., 177, 281 Kim, J.-I., 292 King, J.D., 393 Kloas, W., 384 Köhler, H.-R., 398 Kondo, M., 241 Konno, K., 207 Köroğlu, G., 145 Kovačević, T.B., 366 Krasowska, A., 15 Kristensen, T., 314 Kullman, S.W., 338 Kumasaka, K., 241 Kuroda, A., 297

Lanchote, V.L., 85 Łaszczyca, P., 412 Lee, J.-A., 292 Lekube, X., 188 Leprince, J., 393 Li, W., 217 Li, X.-Y., 292 Lin, C.-H., 58 Liu, J., 248 Liu, M., 168 Livingstone, D.R., 20 Lutz, I., 384

Mahmoud, K.Z., 69 Mancera, J.M., 375 Marigómez, I., 188 Massanisso, P., 101 Matsuda, H., 241 Mazumder, S., 76 McCormick, S.D., 217 Meirelles, F.V., 225 Meistertzheim, A.-L., 151 Meussen-Elholm, E.T.M., 267 Meyer, J.N., 406 Micael, J., 101 Migula, P., 412 Mikolajczyk, T., 325 Milošević, S.M., 366 Miyazaki, N., 281 Monteiro, S.M., 375 Morabito, R., 101 Moraga, D., 151 Moroe, H., 241 Mouneyrac, C., 306

Nakashima, T., 297 Nielsen, P.F., 393 Nunes, V.A., 225

Oda, T., 297 Oliveira, L., 50 Olsen, C.M., 267 Olsvik, P.A., 314 Onagbesan, O., 349 Ortiz-Zarragoitia, M., 133 Pan, L., 248 Pavlović, S.Z., 366 Pérez, J.C., 124 Pérez, T., 306 Petrov, E.A., 281 Powell, R.L., 124 Procopio, J., 207

Radojičić, R.M., 366 Rangel, M., 207 Rantin, F.T., 275 Rees, C.B., 217 Reis-Henriques, M.A., 8, 101 Ren, J., 248 Renata Mortari, M., 50 Reyes, S.R., 124 Rose, T., 356 Rosseland, B.O., 314 Russell, D.H., 124 Russell, W.K., 124

Saičić, Z.S., 366 Sampaio, C.A.M., 225 Sampaio, M.U., 225 Sampaio, S.V., 85 Sánchez, E.E., 124 Santos, M.M., 101 Šaponjić, J.S., 366 Seniczak, A., 398 Seniczak, S., 398 Shi, J., 93 Sinha, B., 76 Smith, E., 32 Smith, S.C., 32 Socha, M., 325 Sokolowska-Mikolajczyk, M., 325 Solé, M., 20 Song, L., 93 Sonnevend, A., 393 Soto, J.G., 124

Sousa, M., 375 Spasić, M.B., 366 Stamatiou, R., 257 Stenersen, J., 267 Suda, T., 281 Sun, B., 93 Szymacha, J., 325

Tanabe, S., 177, 281 Tanguy, A., 151 Tanguy-Royer, S., 151 Timme-Laragy, A.R., 406 Tollefsen, K.-E., 267 Tollefsen, K.-E., 314 Tsai, M.-C., 58

Vasconcelos, F., 85 Vieira, M.N., 101 Viel, T.A., 225 Vijayan, M.M., 40 Vuori, K., 40

Waagbø, R., 314 Waterland, R.A., 406 Webb, D., 356 Wells, R.E., 32 Wilczek, G., 194, 412 Włostowski, T., 15

Xu, W.-H., 168

Yamaguchi, K., 297 Yamauchi, M., 177

Zhang, G., 93 Zhang, T.-Y., 168 Žikić, R.V., 366 Żukowski, J., 15